

**Diesel fuel fraction depth desulfurization and dearomatization catalyst and prep. thereof**

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**Tiivistelmä CN1448473**

The present invention is one kind of catalyst for producing low-sulfur and low-arene clean diesel oil and its preparation. The catalyst has modified Y-type molecular sieve as its acid component, and the modification process of the molecular sieve is to make siliceous organic matter with relatively large dynamic diameter contact with the molecular sieve and combine with acid centers on the surface of the molecular sieve while maintaining the acid centers inside the molecular sieve pore passages of the molecular sieve under certain conditions. The catalyst is used in producing low-sulfur and low-arene clean diesel oil and has the advantages of high diesel oil yield, high cetane number of diesel oil product, low sulfur, nitrogen and arene content in diesel oil, etc.

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